Release notes for ENDF/B Development n-047_Ag_107 evaluation

April 26, 2017

- **checkr** Warnings:

    1. A previous error halted parsing of the current section
       MAT=4725, MF= 1, MT=451 (1): Parsing stopped

       ```
       ERROR(S) FOUND IN MAT=4725, MF= 1, MT=451
           SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      222 TO      303
       ```

- **checkr** Errors:

    1. A variable is outside the allowed ENDF range
       MAT=4725, MF= 1, MT=451 (0): Variable range

       ```
       ERROR(S) FOUND IN MAT=4725, MF= 1, MT=451
           MOD =    1 OUT OF RANGE    0 -    0          RECORD NUMBER     222
       ```

    2. Missing a section in directory so your directory is messed up. This error will break everything else
       MAT=4725, MF= 2, MT=151 (0): Directory (b)

       ```
       ERROR(S) FOUND IN MAT=4725, MF= 2, MT=151
           SECTION  2/151 NOT IN DIRECTORY            RECORD NUMBER     305
       ```

    3. Missing a section in directory so your directory is messed up. This error will break everything else
       MAT=4725, MF= 3, MT= 1 (0): Directory (b)

       ```
       ERROR(S) FOUND IN MAT=4725, MF= 3, MT=  1
           SECTION  3/  1 NOT IN DIRECTORY            RECORD NUMBER     838
       ```

    4. Missing a section in directory so your directory is messed up. This error will break everything else
       MAT=4725, MF= 3, MT= 2 (0): Directory (b)

       ```
       ERROR(S) FOUND IN MAT=4725, MF= 3, MT=  2
           SECTION  3/  2 NOT IN DIRECTORY            RECORD NUMBER     889
       ```

    5. Missing a section in directory so your directory is messed up. This error will break everything else
       MAT=4725, MF= 3, MT= 3 (0): Directory (b)

       ```
       ERROR(S) FOUND IN MAT=4725, MF= 3, MT=  3
           SECTION  3/  3 NOT IN DIRECTORY            RECORD NUMBER     940
       ```

    6. Missing a section in directory so your directory is messed up. This error will break everything else
       MAT=4725, MF= 3, MT= 4 (0): Directory (b)

       ```
       ERROR(S) FOUND IN MAT=4725, MF= 3, MT=  4
           SECTION  3/  4 NOT IN DIRECTORY            RECORD NUMBER     974
       ```

    7. Missing a section in directory so your directory is messed up. This error will break everything else
       MAT=4725, MF= 3, MT= 16 (0): Directory (b)

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```
       ERROR(S) FOUND IN MAT=4725, MF= 3, MT= 16
          SECTION  3/ 16 NOT IN DIRECTORY                    RECORD NUMBER     995
```

8. Missing a section in directory so your directory is messed up. This error will break everything else
   $MAT=4725$, $MF=3$, $MT=17$ (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=4725, MF= 3, MT= 17
          SECTION  3/ 17 NOT IN DIRECTORY                    RECORD NUMBER    1004
```

9. Missing a section in directory so your directory is messed up. This error will break everything else
   $MAT=4725$, $MF=3$, $MT=22$ (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=4725, MF= 3, MT= 22
          SECTION  3/ 22 NOT IN DIRECTORY                    RECORD NUMBER    1010
```

10. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=4725$, $MF=3$, $MT=28$ (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=4725, MF= 3, MT= 28
          SECTION  3/ 28 NOT IN DIRECTORY                    RECORD NUMBER    1019
```

11. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=4725$, $MF=3$, $MT=51$ (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=4725, MF= 3, MT= 51
          SECTION  3/ 51 NOT IN DIRECTORY                    RECORD NUMBER    1028
```

12. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=4725$, $MF=3$, $MT=52$ (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=4725, MF= 3, MT= 52
          SECTION  3/ 52 NOT IN DIRECTORY                    RECORD NUMBER    1049
```

13. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=4725$, $MF=3$, $MT=53$ (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=4725, MF= 3, MT= 53
          SECTION  3/ 53 NOT IN DIRECTORY                    RECORD NUMBER    1070
```

14. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=4725$, $MF=3$, $MT=54$ (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=4725, MF= 3, MT= 54
          SECTION  3/ 54 NOT IN DIRECTORY                    RECORD NUMBER    1090
```

15. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=4725$, $MF=3$, $MT=55$ (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4725, MF= 3, MT= 55
     SECTION  3/ 55 NOT IN DIRECTORY                 RECORD NUMBER    1110
```

16. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=4725, MF= 3, MT= 56 (0): Directory (b)$

```
ERROR(S) FOUND IN MAT=4725, MF= 3, MT= 56
     SECTION  3/ 56 NOT IN DIRECTORY                 RECORD NUMBER    1125
```

17. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=4725, MF= 3, MT= 57 (0): Directory (b)$

```
ERROR(S) FOUND IN MAT=4725, MF= 3, MT= 57
     SECTION  3/ 57 NOT IN DIRECTORY                 RECORD NUMBER    1143
```

18. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=4725, MF= 3, MT= 58 (0): Directory (b)$

```
ERROR(S) FOUND IN MAT=4725, MF= 3, MT= 58
     SECTION  3/ 58 NOT IN DIRECTORY                 RECORD NUMBER    1161
```

19. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=4725, MF= 3, MT= 59 (0): Directory (b)$

```
ERROR(S) FOUND IN MAT=4725, MF= 3, MT= 59
     SECTION  3/ 59 NOT IN DIRECTORY                 RECORD NUMBER    1179
```

20. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=4725, MF= 3, MT= 60 (0): Directory (b)$

```
ERROR(S) FOUND IN MAT=4725, MF= 3, MT= 60
     SECTION  3/ 60 NOT IN DIRECTORY                 RECORD NUMBER    1196
```

21. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=4725, MF= 3, MT= 61 (0): Directory (b)$

```
ERROR(S) FOUND IN MAT=4725, MF= 3, MT= 61
     SECTION  3/ 61 NOT IN DIRECTORY                 RECORD NUMBER    1210
```

22. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=4725, MF= 3, MT= 62 (0): Directory (b)$

```
ERROR(S) FOUND IN MAT=4725, MF= 3, MT= 62
     SECTION  3/ 62 NOT IN DIRECTORY                 RECORD NUMBER    1226
```

23. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=4725, MF= 3, MT= 63 (0): Directory (b)$

```
      ERROR(S) FOUND IN MAT=4725, MF= 3, MT= 63
          SECTION  3/ 63 NOT IN DIRECTORY                    RECORD NUMBER    1242
```

24. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 3, MT= 64 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4725, MF= 3, MT= 64
          SECTION  3/ 64 NOT IN DIRECTORY                    RECORD NUMBER    1258
```

25. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 3, MT= 65 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4725, MF= 3, MT= 65
          SECTION  3/ 65 NOT IN DIRECTORY                    RECORD NUMBER    1273
```

26. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 3, MT= 66 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4725, MF= 3, MT= 66
          SECTION  3/ 66 NOT IN DIRECTORY                    RECORD NUMBER    1288
```

27. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 3, MT= 91 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4725, MF= 3, MT= 91
          SECTION  3/ 91 NOT IN DIRECTORY                    RECORD NUMBER    1302
```

28. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 3, MT=102 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4725, MF= 3, MT=102
          SECTION  3/102 NOT IN DIRECTORY                    RECORD NUMBER    1316
```

29. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 3, MT=103 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4725, MF= 3, MT=103
          SECTION  3/103 NOT IN DIRECTORY                    RECORD NUMBER    1339
```

30. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 3, MT=107 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4725, MF= 3, MT=107
          SECTION  3/107 NOT IN DIRECTORY                    RECORD NUMBER    1354
```

31. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 4, MT= 2 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF= 4, MT=  2
          SECTION  4/  2 NOT IN DIRECTORY               RECORD NUMBER    1369
```

32. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 4, MT= 16 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF= 4, MT= 16
          SECTION  4/ 16 NOT IN DIRECTORY               RECORD NUMBER    1563
```

33. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 4, MT= 17 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF= 4, MT= 17
          SECTION  4/ 17 NOT IN DIRECTORY               RECORD NUMBER    1566
```

34. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 4, MT= 22 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF= 4, MT= 22
          SECTION  4/ 22 NOT IN DIRECTORY               RECORD NUMBER    1569
```

35. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 4, MT= 28 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF= 4, MT= 28
          SECTION  4/ 28 NOT IN DIRECTORY               RECORD NUMBER    1572
```

36. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 4, MT= 51 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF= 4, MT= 51
          SECTION  4/ 51 NOT IN DIRECTORY               RECORD NUMBER    1575
```

37. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 4, MT= 52 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF= 4, MT= 52
          SECTION  4/ 52 NOT IN DIRECTORY               RECORD NUMBER    1666
```

38. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 4, MT= 53 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF= 4, MT= 53
          SECTION  4/ 53 NOT IN DIRECTORY               RECORD NUMBER    1752
```

39. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 4, MT= 54 (0): Directory (b)

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```
        ERROR(S) FOUND IN MAT=4725, MF= 4, MT= 54
          SECTION  4/ 54 NOT IN DIRECTORY                    RECORD NUMBER    1847
```

40. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 4, MT= 55 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF= 4, MT= 55
          SECTION  4/ 55 NOT IN DIRECTORY                    RECORD NUMBER    1936
```

41. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 4, MT= 56 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF= 4, MT= 56
          SECTION  4/ 56 NOT IN DIRECTORY                    RECORD NUMBER    2016
```

42. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 4, MT= 57 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF= 4, MT= 57
          SECTION  4/ 57 NOT IN DIRECTORY                    RECORD NUMBER    2107
```

43. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 4, MT= 58 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF= 4, MT= 58
          SECTION  4/ 58 NOT IN DIRECTORY                    RECORD NUMBER    2188
```

44. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 4, MT= 59 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF= 4, MT= 59
          SECTION  4/ 59 NOT IN DIRECTORY                    RECORD NUMBER    2272
```

45. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 4, MT= 60 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF= 4, MT= 60
          SECTION  4/ 60 NOT IN DIRECTORY                    RECORD NUMBER    2354
```

46. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 4, MT= 61 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF= 4, MT= 61
          SECTION  4/ 61 NOT IN DIRECTORY                    RECORD NUMBER    2430
```

47. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 4, MT= 62 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF= 4, MT= 62
          SECTION  4/ 62 NOT IN DIRECTORY                RECORD NUMBER    2519
```

48. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 4, MT= 63 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF= 4, MT= 63
          SECTION  4/ 63 NOT IN DIRECTORY                RECORD NUMBER    2605
```

49. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 4, MT= 64 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF= 4, MT= 64
          SECTION  4/ 64 NOT IN DIRECTORY                RECORD NUMBER    2685
```

50. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 4, MT= 65 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF= 4, MT= 65
          SECTION  4/ 65 NOT IN DIRECTORY                RECORD NUMBER    2764
```

51. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 4, MT= 66 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF= 4, MT= 66
          SECTION  4/ 66 NOT IN DIRECTORY                RECORD NUMBER    2846
```

52. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 4, MT= 91 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF= 4, MT= 91
          SECTION  4/ 91 NOT IN DIRECTORY                RECORD NUMBER    2928
```

53. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 5, MT= 16 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF= 5, MT= 16
          SECTION  5/ 16 NOT IN DIRECTORY                RECORD NUMBER    2932
```

54. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 5, MT= 17 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF= 5, MT= 17
          SECTION  5/ 17 NOT IN DIRECTORY                RECORD NUMBER    3136
```

55. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 5, MT= 22 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF= 5, MT= 22
            SECTION  5/ 22 NOT IN DIRECTORY                    RECORD NUMBER    3187
```

56. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 5, MT= 28 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF= 5, MT= 28
            SECTION  5/ 28 NOT IN DIRECTORY                    RECORD NUMBER    3391
```

57. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF= 5, MT= 91 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF= 5, MT= 91
            SECTION  5/ 91 NOT IN DIRECTORY                    RECORD NUMBER    3623
```

58. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF=12, MT= 4 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF=12, MT=  4
            SECTION 12/  4 NOT IN DIRECTORY                    RECORD NUMBER    4161
```

59. Missing a gamma spectrum for continuum of gammas
    MAT=4725, MF=12, MT= 4 (1): No gamma spectrum

```
        ERROR(S) FOUND IN MAT=4725, MF=12, MT=  4
            CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
```

60. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF=12, MT= 16 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF=12, MT= 16
            SECTION 12/ 16 NOT IN DIRECTORY                    RECORD NUMBER    4177
```

61. Missing a gamma spectrum for continuum of gammas
    MAT=4725, MF=12, MT= 16 (1): No gamma spectrum

```
        ERROR(S) FOUND IN MAT=4725, MF=12, MT= 16
            CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
```

62. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF=12, MT= 17 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF=12, MT= 17
            SECTION 12/ 17 NOT IN DIRECTORY                    RECORD NUMBER    4186
```

63. Missing a gamma spectrum for continuum of gammas
    MAT=4725, MF=12, MT= 17 (1): No gamma spectrum

```
        ERROR(S) FOUND IN MAT=4725, MF=12, MT= 17
            CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
```

64. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4725, MF=12, MT= 22 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=4725, MF=12, MT= 22
        SECTION 12/ 22 NOT IN DIRECTORY              RECORD NUMBER    4192
```

65. Missing a gamma spectrum for continuum of gammas
MAT=4725, MF=12, MT= 22 (1): No gamma spectrum

```
     ERROR(S) FOUND IN MAT=4725, MF=12, MT= 22
        CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
```

66. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4725, MF=12, MT= 28 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=4725, MF=12, MT= 28
        SECTION 12/ 28 NOT IN DIRECTORY              RECORD NUMBER    4201
```

67. Missing a gamma spectrum for continuum of gammas
MAT=4725, MF=12, MT= 28 (1): No gamma spectrum

```
     ERROR(S) FOUND IN MAT=4725, MF=12, MT= 28
        CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
```

68. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4725, MF=12, MT=102 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=4725, MF=12, MT=102
        SECTION 12/102 NOT IN DIRECTORY              RECORD NUMBER    4210
```

69. Missing a gamma spectrum for continuum of gammas
MAT=4725, MF=12, MT=102 (1): No gamma spectrum

```
     ERROR(S) FOUND IN MAT=4725, MF=12, MT=102
        CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
```

70. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4725, MF=12, MT=103 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=4725, MF=12, MT=103
        SECTION 12/103 NOT IN DIRECTORY              RECORD NUMBER    4226
```

71. Missing a gamma spectrum for continuum of gammas
MAT=4725, MF=12, MT=103 (1): No gamma spectrum

```
     ERROR(S) FOUND IN MAT=4725, MF=12, MT=103
        CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
```

72. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4725, MF=12, MT=107 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF=12, MT=107
           SECTION 12/107 NOT IN DIRECTORY                 RECORD NUMBER    4240
```

73. Missing a gamma spectrum for continuum of gammas
    MAT=4725, MF=12, MT=107 (1): No gamma spectrum

```
        ERROR(S) FOUND IN MAT=4725, MF=12, MT=107
           CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
```

74. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF=14, MT= 4 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF=14, MT=  4
           SECTION 14/  4 NOT IN DIRECTORY               RECORD NUMBER    4253
```

75. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF=14, MT= 16 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF=14, MT= 16
           SECTION 14/ 16 NOT IN DIRECTORY               RECORD NUMBER    4255
```

76. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF=14, MT= 17 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF=14, MT= 17
           SECTION 14/ 17 NOT IN DIRECTORY               RECORD NUMBER    4257
```

77. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF=14, MT= 22 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF=14, MT= 22
           SECTION 14/ 22 NOT IN DIRECTORY               RECORD NUMBER    4259
```

78. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF=14, MT= 28 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF=14, MT= 28
           SECTION 14/ 28 NOT IN DIRECTORY               RECORD NUMBER    4261
```

79. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF=14, MT=102 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF=14, MT=102
           SECTION 14/102 NOT IN DIRECTORY               RECORD NUMBER    4263
```

80. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4725, MF=14, MT=103 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4725, MF=14, MT=103
           SECTION 14/103 NOT IN DIRECTORY               RECORD NUMBER    4265
```

81. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4725, MF=14, MT=107 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=4725, MF=14, MT=107
       SECTION 14/107 NOT IN DIRECTORY              RECORD NUMBER    4267
```

82. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4725, MF=15, MT= 4 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=4725, MF=15, MT=  4
       SECTION 15/  4 NOT IN DIRECTORY             RECORD NUMBER    4270
```

83. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4725, MF=15, MT= 16 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=4725, MF=15, MT= 16
       SECTION 15/ 16 NOT IN DIRECTORY             RECORD NUMBER    4768
```

84. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4725, MF=15, MT= 17 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=4725, MF=15, MT= 17
       SECTION 15/ 17 NOT IN DIRECTORY             RECORD NUMBER    4889
```

85. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4725, MF=15, MT= 22 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=4725, MF=15, MT= 22
       SECTION 15/ 22 NOT IN DIRECTORY             RECORD NUMBER    4914
```

86. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4725, MF=15, MT= 28 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=4725, MF=15, MT= 28
       SECTION 15/ 28 NOT IN DIRECTORY             RECORD NUMBER    5033
```

87. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4725, MF=15, MT=102 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=4725, MF=15, MT=102
       SECTION 15/102 NOT IN DIRECTORY             RECORD NUMBER    5180
```

88. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4725, MF=15, MT=103 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=4725, MF=15, MT=103
       SECTION 15/103 NOT IN DIRECTORY             RECORD NUMBER    6204
```

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89. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4725, MF=15, MT=107 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=4725, MF=15, MT=107
        SECTION 15/107 NOT IN DIRECTORY                    RECORD NUMBER    6582
```

- `psyche`   Warnings:

    1. Non-threshold reaction with Q value differing from PSYCHE's expectations
    FILE 3 / SECTION 103 / THE CALCULATED Q 8.99067E+05 DISSAGREES WITH THE GIVEN Q 7.49499E+05 (0): Iffy Q

    ```
    FILE  3
       SECTION 103
               THE CALCULATED Q  8.99067E+05 DISSAGREES WITH THE GIVEN Q  7.49499E+05
    ```

- `recent`   Warnings:

    1. Statistical weight of certain L values were incorrect
    0: RRR goof (a)

    ```
    Calculate Cross Sections from Resonance Parameters (RECENT 2015-1)
    ================================================================================
    Retrieval Criteria-----------        MAT
    File 2 Mimimum Cross Section- 1.0000E-10 (Standard Option)
    Reactions with No Background-    Output (Resonance Contribution)
    ... [786 more lines]
    ```

- `fudge-4.0`   Errors:

    1. The spin statistical weights are off, indicating missing channels
    resonances / resolved / MultiLevel_BreitWigner (Error # 0): badSpinStatisticalWeights

    ```
    WARNING: The spin statical weights for L=1 sums to 2.25, but should sum to 3.0.  You have too few channels for r
    ```

    2. Calculated and tabulated Q values disagree.
    reaction label 18: n[multiplicity:'2'] + Ag106 + gamma (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: -9282722.144378662 eV vs -9546690. eV!
    ```

    3. Calculated and tabulated Q values disagree.
    reaction label 19: n[multiplicity:'3'] + Ag105 + gamma (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: -17223388.21882629 eV vs -1.7472e7 eV!
    ```

    4. Calculated and tabulated Q values disagree.
    reaction label 20: n + H1 + Pd106 + gamma (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: -5535238.06628418 eV vs -5780190. eV!
    ```

    5. Calculated and tabulated Q values disagree.
    reaction label 21: Ag108 + gamma (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: 7524407.965362549 eV vs 7269690. eV!
    ```

6. Calculated and tabulated Q values disagree.
   reaction label 22: n + He4 + Rh103 + gamma (Error # 0): Q mismatch

   ```
   WARNING: Calculated and tabulated Q-values disagree: -2551475.477996826 eV vs -2.8049e6 eV!
   ```

7. Calculated and tabulated Q values disagree.
   reaction label 23: H1 + (Pd107_s ->Pd107 + gamma) (Error # 0): Q mismatch

   ```
   WARNING: Calculated and tabulated Q-values disagree: 1001195.143356323 eV vs 749499. eV!
   ```

8. Calculated and tabulated Q values disagree.
   reaction label 24: He4 + (Rh104_s ->Rh104 + gamma) (Error # 0): Q mismatch

   ```
   WARNING: Calculated and tabulated Q-values disagree: 4447481.785720825 eV vs 4194690. eV!
   ```

- `njoy2012` Warnings:

  1. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
     groupr...compute self-shielded group-averaged cross-sections (0): GROUPR/conver (0)

     ```
      ---message from conver---cannot do complete particle production for mt= 16
                          only mf4/mf5 provided
     ```

  2. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
     groupr...compute self-shielded group-averaged cross-sections (1): GROUPR/conver (0)

     ```
      ---message from conver---cannot do complete particle production for mt= 17
                          only mf4/mf5 provided
     ```

  3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
     groupr...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)

     ```
      ---message from conver---cannot do complete particle production for mt= 22
                          only mf4/mf5 provided
     ```

  4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
     groupr...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)

     ```
      ---message from conver---cannot do complete particle production for mt= 28
                          only mf4/mf5 provided
     ```

  5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended

to goad evaluators to improve things!
groupr...compute self-shielded group-averaged cross-sections (4): GROUPR/conver (0)

```
 ---message from conver---cannot do complete particle production for mt= 91
                           only mf4/mf5 provided
```